

IN THE CLAIMS

The currently updated set of claims is provided below.

1. (canceled)
2. (previously presented) A method according to Claim 7, wherein the Fabry-Perot filter is operable to exhibit a certain transmission for each wavelength included in a channel plane which contains desired wavelengths and exhibits a transmission that deviates therefrom with respect to other wavelengths.
3. (previously presented) A method according to Claim 7, including delivering the first detector signal to a power regulating circuit operable to control the laser to emit light with a constant power.
4. (canceled)
5. (previously presented) A method according to Claim 7, including sweeping at least one tuning current other than the reflector current in different directions about a contemplated operation point to determine whether or not hysteresis occurs at the contemplated operation point.
6. (currently amended) A method according to Claim [1] 7, including measuring the wavelength transmitted by the laser at a number of the operation points until one operation point has been obtained for each desired wavelength, and storing the control combination for the operation points associated with the desired wavelengths.
7. (previously presented) A method of evaluating a tunable laser and determining suitable laser operation points, the laser including two or more tuning sections in which injected tuning currents can be varied, the two or more tuning sections comprising at least a phase section and a reflector section, the method comprising:

leading part of the output light emitted by the laser to a first detector that produces a first detector signal indicative of output power of the laser and to a second detector via a Fabry Perot filter, the second detector producing a second detector signal at least partly indicative of the wavelength of the light emitted by the laser;

sweeping the tuning currents to pass through different current combinations, including sweeping a current through the reflector section in one direction and then in a second direction;

determining ratios of the first and second detector signals corresponding to the different current combinations; and

storing a control combination for the tuning currents, corresponding to an operation point, when the ratio of the first and second detector signals lies within a predetermined range signifying that the emitted light lies within one of a number of wavelengths given by the Fabry-Perot filter and the ratio lies within the predetermined range when the reflector current is swept in both the first and second directions.

8. (previously presented) A method according to Claim 7, wherein the first and second detector detect light emitted from a first side of the laser, and further comprising:

monitoring power of light emitted from a second side of the laser with a monitor detector to produce a monitor signal indicative of the power emitted from the second side of the laser, and

adjusting the tuning currents to reach an extreme in a ratio of the first detector signal and the monitor signal, thereby optimizing an operation point for the laser.